

## Hansen Cleaning Solvent Research

Completed Technology Project (2011 - 2012)

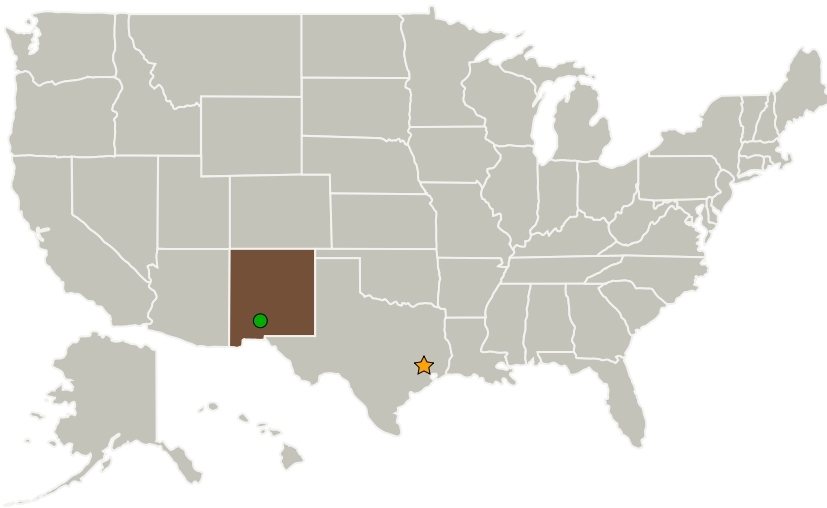


## Project Introduction

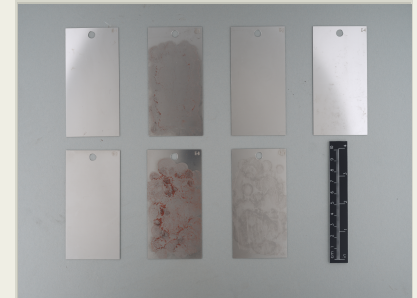
Environmental regulation will force current baseline precision cleaning solvent (AK-225) to be phased out starting 2015; we plan to develop a new solvent or solvent blend that will replace the current baseline solvent (AK225). This project will attempt to develop a solvent around NASA's contamination needs, by using Hansen Solubility Parameters to identify those solvent blends most compatible with NASA's known contaminants, and then test those identified solvents.

The Plan is to test at least 3 solvent blends for cleaning efficiency on coupons exposed to known contaminants. The project has already created a test process that can tie results back to work done in the 1990's. We will use this data to support the Precision Cleaning and Contamination Control (PC3) efforts over the next few years.

## Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ Johnson Space Center(JSC)	Lead Organization	NASA Center	Houston, Texas
● White Sands Test Facility(WSTF)	Supporting Organization	NASA Facility	Las Cruces, New Mexico



Project Image Hansen Cleaning Solvent Research

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## Organizational Responsibility

## Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

## Lead Center / Facility:

Johnson Space Center (JSC)

## Responsible Program:

Center Innovation Fund: JSC CIF

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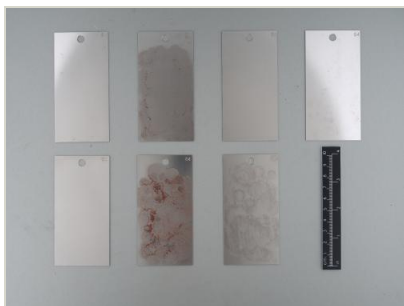
Completed Technology Project (2011 - 2012)



## Primary U.S. Work Locations

New Mexico

## Images



**12380-1380207382722.jpg**

Project Image Hansen Cleaning Solvent Research

(<https://techport.nasa.gov/image/2325>)

## Project Management

### Program Director:

Michael R Lapointe

### Program Manager:

Carlos H Westhelle

### Project Manager:

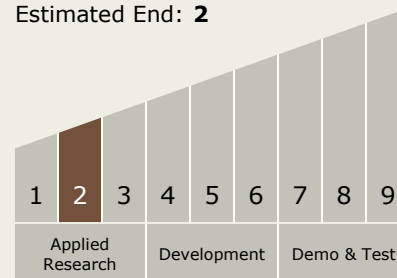
Christina Y Pina Arpin

### Principal Investigator:

Christina Y Pina Arpin

## Technology Maturity (TRL)

Start: **2**  
Estimated End: **2**



## Technology Areas

### Primary:

- TX13 Ground, Test, and Surface Systems
  - └ TX13.2 Test and Qualification
    - └ TX13.2.1 Mechanical/Structural Integrity Testing